storing the delivered piece of information in said themory together with applicable time data not to be falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a decoding unit to decode the encoded data stored in said memory;

arranging a plain data storage unit to store data decoded by said decoding unit;

a plurality of processing units to respectively execute different operations on data stored by said plain data storage unit;

judging if a current time is in the time period authorizing use of the encoded data by referring to applicable time data in response to a request for an operation;

issuing a command responding to the request for the operation to said decoding unit and a corresponding processing unit if the current time is judged to be in the time period authorizing use of the encoded data by referring to said applicable time data and said plain data storage unit does not store the decoded data, and issuing a command responding to the request for the operation to a corresponding processing unit if the current time is judged to be in the time period authorizing use of the encoded data and said plain data storage unit stores the decoded data; and

preventing the issuance of a command responding to the request for the operation until the time authorizing use of the encoded data if the current time is judged not to be in the time period authorizing use of the encoded data.

<u>REMARKS</u>

The office action of October 2, 2001 has been carefully reviewed and these remarks are responsive thereto. Reconsideration and allowance of the instant application are respectfully requested. Claims 1-18 remain pending.



Applicants have amended the specification and claims to correct various informalities discovered therein and to otherwise clarify the invention. Also, applicants are submitting herewith a Request For Approval of Drawing Changes and Submission of Corrected Formal Drawings to correct to minor errors in the figures. Approval of these changes is requested.

Claims 1-18 stand rejected under 35 U.S.C. § 102(e) as being anticipated by McMullan, Jr. et al. (USP 5,654,746). The action contends that McMullan discloses all the features of claims 1-18. Applicants respectfully traverse this rejection.

As amended, apparatus claims 1-8 each call for, among other features, a memory configured to store a delivered piece of information including encoded data and applicable time data defining a time period authorizing use of the encoded data and a verification unit configured to verify whether the applicable time data included in the delivered piece of information in the memory has been falsified. Applicants respectfully submit that McMullan lacks a teaching of the claim 1-8 combination of features including at least the memory and verification unit. Thus, for at least this reason, claims 1-8 are patentably distinct from McMullan.

As amended, method claims 9-13 each recite, among other steps, verifying whether applicable time data included in the delivered piece of information in the memory has been falsified, the applicable time data defining a time period authorizing use of the encoded data. McMullan is wholly devoid of a teaching of the claim 9-13 inventions including such a step. For at least this reason, claims 9-13 are considered patentable over McMullan.

As amended, claims 14-18 are directed to a storage medium having program code instructions, including storing a delivered piece of information in a memory together with applicable time data not to be falsified, the applicable time data defining a time period

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authorizing use of the encoded data. McMullan lacks a teaching or suggestion of a storage medium including the instruction of storing as recited in claims 14-18. Therefore, claims 14-18 are patentably distinct from McMullan.

CONCLUSION

All rejections having been addressed, applicants respectfully submit that the instant application is in condition for allowance, and respectfully solicit prompt notification of the same.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: February 4, 2002

By:

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IN THE ABSTRACT:

The Abstract of the Disclosure has been amended as follows. As required, attached is the new Abstract of the Disclosure on a separate sheet.

The encoded contents of a piece of delivered information is accompanied by an applicable time data indicating a specific time period for authorizing a particular mode of utilization. When a request for utilizing the contents is issued in an information utilization apparatus, it determines if the current time agrees with the time authorizing the requested utilization by referring to the time data annexed to the encoded contents. If the request is acceptable at the current time, a set of processing steps isare carried out for decoding the encoded contents and other necessary operations. Thus, the present invention provide an information access control method can be adapted to have flexibility in setting charges and access requirements for the contents of information that can change the value and the mode of utilization with time.

IN THE SPECIFICATION:

The paragraphs commencing on page 1, line 10 and ending on page 2, line 16 have been amended as follows:

Currently, various pieces of information are distributed for sale electronically by way of data communication networks including the Internet and other satellite communication networks and recording media including CD-ROMs. Such pieces of information typically include the contents of newspapers, magazines, computer programs and recorded videos and audios.

However, there arises the serious problem of pirate copies of these contents that are illegally sold or leased to unauthorized third parties because the electronized electronic contents can be copied without degradation. In particular, there is no effective way of prohibiting the act

of making pirate copies if the contents are sold on a payment on delivery basis, in the case where the accounting is done only when the user has obtained the contents. While there may be legal means of confiscating and destructing pirate copies to be taken by the related authorities and that of suing the pirates for the lost profit to be taken by the infringed, such actions entails enormous time and cost so that a large number of pirate copies are actually on the market.

The pay-per-view system is an alternative proposed to bypass the problem of pirate copies. With this system, the contents of information are encoded before being delivered to the subscriber so as to prevent the user from utilizing the contents at his or her free will. For example, the user is prohibited from keeping the contents in a decoded state and the encoded contents can be decoded each time the user uses them, so that the accounting is done when the encoded contents are decoded. By adopting this method, the accounting can be done without fail because the encoded contents must be decoded when the user uses them.

The paragraph bridging pages 3 and 4 has been amended as follows:

Since the encoded contents are decoded whenever they are used so that the user is charged for each decoding operation of the decoding section 2006. Specific examples of charging methods that can be used for the system under consideration include the one for uploading the record of decoding operations stored in the user terminal 2000 to the information provider 1000 and charging collectively at a later data date and the one for providing the user with a pre-paid card that can be used at the user terminal 2000 for decoding operations.

The paragraph bridging pages 8 and 9 has been amended as follows:

According to another aspect of the present invention, there is provided an information utilization apparatus comprising: memory means for storing a delivered piece of information including encoded data and applicable time data defining the time period authorizing the use of

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the encoded data; a plurality of decoding means for decoding the encoded data stored in the memory means; a plurality of processing means arranged respectively corresponding to the plurality of decoding means for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding means; judging means, upon receiving a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of the encoded data by referring to the applicable time data; operation command issuing means for issuing a command responding to the request for an operation to the corresponding decoding means and the corresponding processing means if the current time is determined by the judging means to agree with the time authorizing the use of the encoded data; and operation command reserving means for reserving the issuance of a command responding to the request for an operation until the time authorizing the use of the encoded data if the current time is determined by the judging means not to agree with the time authorizing the use of the encoded data.

The paragraph on page 15, lines 8-13, has been amended as follows:

Note that the terms "encode/decode" used in this specification includes the meanings of "encrypt/decrypt" and the like. Moreover, note that the term "data" (i.e., encoded or decoded data) includes the meaning of "contents" which appears in the detailed description of the invention.

The paragraph bridging pages 18 and 19 has been amended as follows:

The information distributed from the information provider 100 to each user terminal 200 includes a condition package 104 and encoded contents 106. The condition package 104 includes a description on the encoding system, a charging system, and applicable time data describing the applicable time period for each mode of utilization of the information. The

applicable time includes also "yes" or "no" for the <u>displayability displayability</u>, the printability and the storability of the information respectively as in the case of conventional systems.

The paragraph on page 21, lines 17-20, has been amended as follows:

Thus, data such as "yes" or "no" for the <u>displayability</u> displayability, the printability and the storability of the information may be omitted if such applicable time data is used.

The paragraph bridging pages 22 and 23 has been amended as follows:

Each of the condition judging section 204, the clock 206, the decoding section 208, the display processing section 210, the decoding section 212, the printing processing section 214, the decoding section 216 and the storage processing section 210-218 in FIG. 2 may be realized either by means of software or by means of hardware. Note that each of these components <u>isare</u> so configured that the user cannot modify any part thereof. Additionally, these components may be realized in the form-a hermetically sealed unitary chip that cannot be damaged from outside.

The paragraph on page 23, lines 25-26, has been amended as follows:

Note that step S12 may precedes step S11 or steps S11 and $\underline{S}12$ may be carried out concurrently.

The paragraphs on page 24, lines 9-25, have been amended as follows:

If it is determined in step S14 that the requested action (for display, printing or storage) can be taken, it issues a command for the action to the related decoding section (step S15). Note that, in this embodiment, a command is issued to the decoding section 208 for a displaying action, to the decoding section 212 for a printing action and/or to the decoding section 214-216 for a storing action.

Then, upon receiving a command, the decoding section decodes the encoded contents 106 and the related processing section outputs them to the related unit (step S16). More specifically, the plain contents are displayed on the display unit 230 by the display processing section 208210, printed by the printing unit 240 under the control of the printing processing section 214 and/or stored in the external storage unit 250 by the external storage processing section 216.

The paragraphs commencing on page 25, line 23 and ending on page 26, line 18 have been amended as follows:

It may alternatively be so arranged for the above embodiment that the condition judging section 204 issues a command for an action to the display processing section 208210, the printing processing section 214 and the storage processing section 216-218 simultaneously and only the relevant one or more than one of the display processing section 208210, the printing processing section 214 and the storage processing section 216-218 operate for the specified action in response to the command issued from the condition judging section 204.

While a decoding section is provided for each of the modes of utilization in the above embodiment, a single decoding section may be shared by all the modes of utilization. With such an arrangement, again, the condition judging section 204 issues a command for an action to the display processing section 208210, the printing processing section 214 and the storage processing section 216-218 simultaneously and only the relevant one or more than one of the display processing section 208210, the printing processing section 214 and the storage processing section 216-218 operate for the specified action in response to the command issued from the condition judging section 204.

The paragraph on page 27, lines 8-18, has been amended as follows:

As in the case of the first embodiment, the information distributed from the information provider 100 to each user terminal 300 includes a condition package 104 and encoded contents 106. The condition package 104 includes a description on the encoding system, a charging system, and applicable time data describing the applicable time period for each mode of utilization of the information. The applicable time data includes also "yes" or "no" for the displayability displayability, the printability and the storability of the information respectively as in the case of conventional systems.

The paragraph bridging pages 28 and 29 has been amended as follows:

Thus, data such as "yes" or "no" for the <u>displayability</u> displayability, the printability and the storability of the information may be omitted if such the applicable time data is used.

The paragraph on page 30, lines 10-20, has been amended as follows:

Each of the condition judging section 304, the clock 306, the decoding section 308, the plain contents storage section 310, the display processing section 312, the printing processing section 314 and the storage processing section 316 described above may be realized either by means of software or by means of hardware. Note that each of these components <u>isare</u> so configured that the user cannot modify any part thereof. Additionally, these components may be realized in the form a hermetically sealed unitary chip that cannot be damaged from outside.

The paragraph on page 31, lines 9-10, has been amended as follows:

Note that step S22 may precedes step S21 or steps S21 and $\underline{S}22$ may be carried out concurrently.

The paragraph bridging pages 32 and 33 has been amended as follows:

If, on the other hand, it is found in step S31 that the operation for display has been carried out and hence the plain contents to be utilized are stored in the plain contents storage section 310, the condition judging section 304 picks up the condition package 104 of the information 102 of the information 102 to be utilized (step S32). If the condition package 104 contains "no" for the requested mode of utilization, the request is turned down at this time.

The paragraph on page 33, lines 9-10, has been amended as follows:

Note that step S33 may precedes step S32 or steps S32 and \underline{S} 33 may be carried out concurrently.

The paragraph bridging pages 33 and 34 has been amended as follows:

Then, upon receiving a command, the processing section outputs the plain contents to the related unit 330 for display (step S37). Thus, the plain contents may be printed by the printing unit 240-340 under the control of the printing processing section 314 or stored in the external storage unit 230-350 by the storage processing section 316.

The paragraph bridging pages 34 and 35 has been amended as follows:

According to FIG. 10, on the other hand, the routines as described earlier by referring to FIG. 8 are carried out in steps S42 and S43 if it is found in step S41 that the operation for display has not been carried out yet and hence the plain contents to be utilized are not stored in the plain contents storage section 310 so that, if the plain contents can be displayed, the encoded contents are decoded and displayed automatically.

The paragraph on page 38, lines 16-27, has been amended as follows:

Each of the condition judging section 204, the clock 206, the decoding section 208, the display processing section 210, the decoding section 212, the printing processing section 214, the decoding section 216, the storage processing section 210-218 and the command memory section 220 described above may be realized either by means of software or by means of hardware. Note that each of these components <u>isare</u> so configured that the user cannot modify any part thereof. Additionally, these components may be realized in the <u>form</u>-a hermetically sealed unitary chip that cannot be damaged from outside.

The paragraph bridging pages 42 and 43 has been amended as follows:

The command memory section 320 operates for storing the commands for actions sent from the condition judging section 304 and holds them for the future. The command memory section 320 is provided with a timer. The timer is used to specify the time and date when the decoding section 308 is authorized to decode the encoded contents for the requested action so that it generates an-a_timer event when a predetermined time period has elapsed. Once a timer event is generated, the command memory section 320 transmits the related command it stores for an action to the decoding section 308 (and the related processing section).

The paragraph bridging pages 46 and 47 has been amended as follows:

If the command memory section 320 stores more than one commands, it carries out the processing operation of FIG. 17 for each and all of the stored commands. It may be so arranged that a command for display is issued first if the same contents are reserved for both display and another mode of utilization other at a same appointed time or two respective appointed times that are close to each other.

The paragraph on page 47, lines 11-23, has been amended as follows:

In FIG. 18, steps S101 through S109 are identical with steps S41 through S49 of FIG. 10. In other words, if the requested action is authorized to be taken at the current time and date, it is carried out at steps S101 through S109. On the other hand, the routines as described earlier by referring to FIG. 8 are carried out in steps S42 and S43 if it is found in step S41 that the operation for display has not been carried out yet and hence the plain contents to be utilized are not stored in the plain contents storage section 310 so that, if the plain contents can be displayed, the encoded contents are decoded and displayed automatically.

The paragraph bridging pages 47 and 48 has been amended as follows:

On the other hand, if it is determined in step S101 that there exists the requested plain contents, the condition judging section 304 sends a control signal representing a command for the action that has to be reserved and data on the time and date when the request is authorized and hence the action can be taken to the command memory section 320 and sets the timer (step S110) even though the requested action is prohibited at the time and date of the request but there exits exists a time period during which the request can be authorized. As described above, it may be so arranged that a message saying that the request is reserved be displayed to notify the user thereof under this condition.

The paragraph bridging pages 48 and 49 has been amended as follows:

When the timer event occurs after the predetermined time period, the processing steps are taken in a manner as described above by referring to FIG. 17. If the command memory section 320 stores more than one commands as described above, it carries out the processing operation of FIG. 17 for each and all of the stored commands. It may be so arranged that a command for display is issued first if the same contents are reserved for both display and another mode of

utilization other at a same appointed time or two respective appointed times that are close to each other.

The paragraph bridging pages 50 and 51 has been amended as follows:

It may alternatively be so arranged that, upon receiving a request for storage, the user terminal follows a set of processing steps as described above and transfers the plain contents corresponding to the request to the user computer instead of sending them to the storage unit of the terminal if the request is authorized any time thereafter (or a time comes when the request is authorized any time thereafter). The requesting user computer then stores the plain contents it receives. Since the use of the plain contents is authorized anytime thereafter, the user computer can utilize the plain contents it stores in any fashion.

The paragraph on page 51, lines 11-14, has been amended as follows:

Alternatively, the user terminal may be used only as a server of the user terminal of any of the first through fourth embodiments may be provided with the functional feature of a server.

IN THE CLAIMS:

The claims have been amended as follows:

1. (Amended) An information utilization apparatus comprising:

memory means for storinga memory configured to store a delivered piece of information including encoded data and applicable time data defining thea time period authorizing the use of the encoded data;

a verification unit configured to verify whether the applicable time data included in the delivered piece of information in said memory has been falsified;

decoding means for decoding a decoding unit configured to decode the encoded data stored in said memory-means;

processing means for carrying out a set of processing steps for a processing unit configured to execute an operation requested by the user on the data decoded by saidthe decoding means; unit; and

eontrol means for controllinga control unit configured to control said decoding meansunit and said processing meansunit to operate at an appropriate time in accordance with the operation requested by the user and the verified applicable time data stored in said memory means. in response to a request for an operation.

- 2. (Amended) TheAn information utilization, apparatus according to claim 1, wherein said control means comprises judging means for determining if the current time agrees with the time authorizing the use of said unit comprises a judging unit configured to judge if a current time is in the time period authorizing use of the encoded data.
- 3. (Amended) TheAn information utilization apparatus according to claim 2, wherein said control meansunit controls said processing meansunit to operate when said judging means determines unit judges that the current time agrees with the time is in the time period authorizing the use of said the encoded data.

- 4. (Amended) TheAn information utilization apparatus according to claim 3, further comprising reserving means for reserving thea reserving unit configured to prevent operation of said processing means unit until the time authorizing the use of said the encoded data when said judging means determines unit judges that the current time does not agree with the time is not in the time period authorizing the use of said the encoded data.
 - 5. (Amended) An information utilization apparatus comprising:

memory means for storinga memory configured to store a delivered piece of information including encoded data and applicable time data defining a time period authorizing use of the encoded data;

the time period authorizing the use of the encoded data;

a verification unit configured to verify whether the applicable time data included in the delivered piece of information in said memory has been falsified;

a plurality of decoding means for decodingunits configured to decode the encoded data stored in said memory means; unit;

a plurality of processing means units arranged respectively corresponding to said plurality of decoding means for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding means; units and configured to respectively execute different operations on the data decoded by said plurality of decoding units;

judging means, upon receiving a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of said encoded data by referring to said applicable time data; and

operation command issuing means for issuing a command responding to said request for an operation to the corresponding decoding means and the corresponding processing means if the current time is determined by said judging means to agree with the time authorizing the use of said encoded data by referring to said applicable time data.

a judging unit configured to judge if a current time is in the time period authorizing use of the encoded data according to the verified applicable time data in response to a request for an operation; and

an operation command issuing unit configured to issue a command responding to the request for the operation to a corresponding decoding unit and a corresponding processing unit if the current time is judged by said judging unit to be in the time period authorizing use of the encoded data according to the verified applicable time data.

6. (Amended) An information utilization apparatus comprising:

memory means for storinga memory configured to store a delivered piece of information including encoded data and applicable time data defining thea time period authorizing the use of the encoded data;

a verification unit configured to verify whether the applicable time data included in the delivered piece of information in said memory has been falsified;

decoding means for decoding decoding unit configured to decode the encoded data stored in said memory-means;

<u>a</u> plain data storage means for storing the unit configured to store the data decoded by said decoding means; unit:

a plurality of processing means for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding means; units configured to respectively execute different operations on the decoded data stored by said plain data storage unit;

judging means, upon receiving a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of saida judging unit configured to judge if a current time is in the time period authorizing use of the encoded data according by referring to saidthe verified applicable time data in response to a request for an operation; and

an operation command issuing means for issuingunit configured to issue a command responding to saidthe request for anthe operation to said decoding means and saidunit and a corresponding processing meansunit if the current time is determinedjudged by said judging means to agree with the timeunit to be in the time period authorizingthe use of saidthe encoded data by referring according to saidthe verified applicable time data and the encodedsaid plain data storage meansunit does not store the encodeddecoded data, and issuingto issue a command responding to saidthe request for anthe operation to saida corresponding processing meansunit if the current time is determinedjudged by said judging means to agree with the timeunit to be in the time period authorizingthe use of saidthe encoded data and said plain data storage meansunit stores the decoded data.

7. (Amended) An information utilization apparatus comprising:

memory means for storinga memory configured to store a delivered piece of information including encoded data and applicable time data defining thea time period authorizing the use of the encoded data;

a verification unit configured to verify whether the applicable time data included in the delivered piece of information in said memory has been falsified;

a plurality of decoding means for decodingunits configured to decode the encoded data stored in said memory means;

a plurality of processing meansunits arranged respectively corresponding to said plurality of decoding means for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding means; units and configured to respectively execute different operations on the data decoded by said plurality of decoding units;

judging means, upon receiving a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of saida judging unit configured to judge if a current time is in the time period authorizing use of the encoded data by referring according to saidthe verified applicable time data in response to a request for an operation;

an operation command issuing mean for issuingunit configured to issue a command responding to saidthe request for anthe operation to thea corresponding decoding means and theunit and a corresponding processing means unit if the current time is determined judged by said judging means to agree with the time unit to be in the time period authorizing the use of saidthe encoded data; and

an operation command reserving means for reservingunit configured to prevent the issuance of a command responding to saidthe request for anthe operation until the time authorizing the use of saidthe encoded data if the current time is determined by said judging means not to agree with the time authorizing the use of saidjudged by said judging unit not to be in the time period authorizing use of the encoded data.

8. (Amended) An information utilization apparatus comprising:

memory means for storinga memory configured to store a delivered piece of information including encoded data and applicable time data defining thea time period authorizing the use of the encoded data;

a verification unit configured to verify whether the applicable time data included in the delivered piece of information in said memory has been falsified;

decoding means for decoding unit configured to decode the encoded data stored in said memory-means;

<u>a plain data storage means for storing the unit configured to store the</u> data decoded by said decoding means; unit;

a plurality of processing means for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding means; units configured to respectively execute different operations on the decoded data stored by said plain data storage unit;

judging means, upon receiving a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of saida judging unit configured to judge if a current time is in the time period authorizing use of the encoded data by referring according to saidthe verified applicable time data in response to a request for an operation;

an operation command issuing means for issuingunit configured to issue a command responding to saidthe request for anthe operation to said decoding means and saidunit and a corresponding processing meansunit if the current time is determinedjudged by said judging means to agree with the timeunit to be in the time period authorizingthe use of saidthe encoded data by referring to saidthe verified applicable time data and said plain data storage meansunit does not store the decoded data, and issuingto issue a command responding to saidthe request for anthe operation to saida corresponding processing meansunit if the current time is determinedjudged by said judging means to agree with the timeunit to be in the time period authorizingthe use of saidthe encoded data and said plain data storage meansunit stores the decoded data; and

an operation command reserving means for reservingunit configured to prevent the issuance of a command responding to saidthe request for anthe operation until the time authorizing the use of saidthe encoded data if the current time is determined by said judging means not to agree with the time authorizing the use of saidjudged by said judging unit not to be in the time period authorizing use of the encoded data.

9. (Amended) An information access control method for use in an information utilization apparatus having a memory for storingwhich stores a delivered piece of information including encoded data, said method comprising the steps of:

picking upverifying whether applicable time data included in the delivered piece of information in said memory has been falsified, the applicable time data added to said encoded data and indicating the defining a time period authorizing the use of the encoded data in response to a user request for an operation; and

decoding the encoded data stored in said memory and earrying out a set of processing steps for the executing an operation requested by the user at an appropriate time according to said picked upthe verified applicable time data in response to a request for the operation.

10. (Amended) An information access control method for use in an information utilization apparatus having a memory for storing which stores a delivered piece of information including encoded data, said method comprising the steps of:

verifying whether applicable time data included in the delivered piece of information in said memory has been falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a plurality of decoding sections for decodingunits to decode the encoded data stored in said memory;

arranging a plurality of processing sections arrangedunits respectively corresponding to said plurality of decoding section for carrying out one of different sets of processing steps for an

operation requested by the user on the data decoded by the decoding section; units to respectively execute different operations on data decoded by said plurality of decoding units;

judging, upon receiving a request for an operation from the user, for determining if the eurrent time agrees with the time authorizing the use of saidjudging if a current time is in the time period authorizing use of the encoded data by referring to saidthe verified applicable time data in response to a request for an operation; and

issuing a command responding to saidthe request for anthe operation to thea corresponding decoding section and theunit and a corresponding processing section unit if the current time is determined in said-judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data by referring to saidthe verified applicable time data.

11. (Amended) An information access control method for use in an information utilization apparatus having a memory for storingwhich stores a delivered piece of information including encoded data, said method comprising the steps of:

verifying whether applicable time data included in the delivered piece of information in said memory has been falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a decoding section for decodingunit to decode the encoded data stored in said memory;

arranging a plain data storage section for storing the unit to store data decoded by said decoding section; unit;

arranging a plurality of processing section for carrying out one of different sets of processing steps for an operation requested by the user on the data-decoded by the decoding section; units to respectively execute different operations on data stored by said plain data storage unit;

judging, upon receiving a request for an operation from the user, for determining if the eurrent time agrees with the time authorizing the use of saidjudging if a current time is in the time period authorizing use of the encoded data by referring to saidthe verified applicable time data in response to a request for an operation; and

issuing a command responding to saidthe request for anthe operation to said decoding section and said corresponding processing section unit and a corresponding processing unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data by referring to saidthe verified applicable time data and saidthe plain data storage section unit does not store the decoded data, and issuing a command responding to saidthe request for anthe operation to saida corresponding processing section unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data and said plain data storage section unit stores the decoded data.

12. (Amended) An information access control method for use in an information utilization apparatus having a memory for storing which stores a delivered piece of information including encoded data, said method comprising the steps of:

verifying whether applicable time data included in the delivered piece of information in said memory has been falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a plurality of decoding section for decodingunits to decode the encoded data stored in said memory;

arranging a plurality of processing sections arrangedunits respectively corresponding to said plurality of decoding section for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding section; units to respectively execute different operations on data decoded by said plurality of decoding units;

judging if a current time is in the time period authorizing use of the encoded data by referring to judging, upon receiving the verified applicable time data in response to a request for an operation-from the user, for determining if the current time agrees with the time authorizing the use of saidencoded data by referring to said applicable time data;

issuing a command responding to saidthe request for anthe operation to thea corresponding decoding section and the unit and a corresponding processing section unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data; and

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preventingreserving the issuance of a command responding to said to the request for anthe operation until the time authorizingthe use of saidthe encoded data if the current time is determined in said judging step not to agree with the timejudged not to be in the time period authorizingthe use of saidthe encoded data.

An information access control method for use in an information 13. (Amended) utilization apparatus having a memory for storingwhich stores a delivered piece of information including encoded data, said method comprising the steps of:

verifying whether applicable time data included in the delivered piece of information in said memory has been falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a decoding section for decodingunit to decode the encoded data stored in said memory;

arranging a plain data storage section for storing theunit to store data decoded by said decoding section; unit;

arranging a plurality of processing section for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding section; units to respectively execute different operations on data stored by said plain data storage unit;

judging, upon receivingjudging if a current time is in the time period authorizing use of the encoded data by referring to the verified applicable time data in response to a request for an

operation from the user, for determining if the current time agrees with the time authorizing the use of said encoded data by referring to said applicable time data;

issuing a command responding to saidthe request for anthe operation to said decoding section and said corresponding processing sectionunit and a corresponding processing unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data by referring to saidthe verified applicable time data and saidthe plain data storage sectionunit does not store the decoded data, and issuing a command responding to saidthe request for anthe operation to saida corresponding processing sectionunit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data and said plain data storage sectionunit stores the decoded data; and

preventingreserving the issuance of a command responding to saidthe request for anthe operation until the time authorizing the use of saidauthorizing use of the encoded data if the current time is determined in said judging step not to agree with the timejudged not to be in the time period authorizingthe use of saidthe encoded data.

14. (Amended) A storage medium having program code instructions stored thereon which perform information access control when executed by a processor in an information utilization apparatus having a memory for storingwhich stores a delivered piece of information including encoded data, said instructions comprising:

picking upstoring the delivered piece of information in said memory together with applicable time data not to be falsified, the applicable time data added to said encoded data and indicating the defining a time period authorizing the use of the encoded data in response to a user request for an operation; and

decoding the encoded data stored in said memory and executing an earrying out a set of processing steps for the operation requested by the user at an appropriate time according to said picked upthe applicable time data in response to a request for the operation.

15. (Amended) A storage medium having program code instructions stored thereon which perform information access control when executed by a processor in an information utilization apparatus having a memory for storingwhich stores a delivered piece of information including encoded data, said instructions comprising:

storing the delivered piece of information in said memory together with applicable time data not to be falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a plurality of decoding sections for decodingunits to decode the encoded data stored in said memory;

arranging a plurality of processing sections arranged units respectively corresponding to said plurality of decoding section for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding section; units to respectively execute different operations on data decoded by said plurality of decoding units;

judging, upon receivingjudging if a current time is in the time period authorizing use of the encoded data by referring to the applicable time data in response to a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of said encoded data by referring to said applicable time data; and

issuing a command responding to saidthe request for anthe operation to thea corresponding decoding section and theunit and a corresponding processing section unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data by referring to saidthe applicable time data.

16. (Amended) A storage medium having program code instructions stored thereon which perform information access control when executed by a processor in an information utilization apparatus having a memory for storing which stores a delivered piece of information including encoded data, said instructions comprising:

storing the delivered piece of information in said memory together with applicable time data not to be falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a decoding section for decodingunit to decode the encoded data stored in said memory;

arranging a plain data storage section for storing the unit to store data decoded by said decoding section; unit;

arranging a plurality of processing section for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding section: units to respectively execute different operations on data stored by said plain data storage unit;

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judging, upon receivingjudging if a current time is in the time period authorizing use of the encoded data by referring to the applicable time data in response to a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of said encoded data by referring to said applicable time data; and

issuing a command responding to saidthe request for anthe operation to said decoding section and said corresponding processing section unit and a corresponding processing unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizingthe use of saidthe encoded data by referring to said applicable time data and saidthe plain data storage sectionunit does not store the decoded data, and issuing a command responding to saidthe request for anthe operation to saida corresponding processing section unit if the current time is determined in said judging step to agree with the time judged to be in the time period authorizingthe use of saidthe encoded data and said plain data storage sectionunit stores the decoded data.

A storage medium having program code instructions stored thereon 17. (Amended) which perform information access control when executed by a processor in an information

utilization apparatus having a memory for storingwhich stores a delivered piece of information including encoded data, said instructions comprising:

storing the delivered piece of information in said memory together with applicable time data not to be falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a plurality of decoding section for decodingunits to decode the encoded data stored in said memory;

arranging a plurality of processing sections arrangedunits respectively corresponding to said plurality of decoding section for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding section; units to respectively execute different operations on data decoded by said plurality of decoding units;

judging, upon receiving judging if a current time is in the time period authorizing use of the encoded data by referring to applicable time data in response to a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of said encoded data by referring to said applicable time data;

issuing a command responding to saidthe request for anthe operation to thea corresponding decoding section and the unit and a corresponding processing section unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data; and

preventing reserving the issuance of a command responding to said the request for anthe operation until the time authorizing the use of said the encoded data if the current time is

determined in said judging step not to agree with the timejudged not to be in the time period authorizing the use of said the encoded data.

18. (Amended) A storage medium having program code instructions stored thereon which perform information access control when executed by a processor in an information utilization apparatus having a memory for storing which stores a delivered piece of information including encoded data, said instructions comprising:

storing the delivered piece of information in said memory together with applicable time data not to be falsified, the applicable time data defining a time period authorizing use of the encoded data;

arranging a decoding section for decodingunit to decode the encoded data stored in said memory;

arranging a plain data storage section for storing the unit to store data decoded by said decoding section; unit;

a plurality of processing section for carrying out one of different sets of processing steps for an operation requested by the user on the data decoded by the decoding section; units to respectively execute different operations on data stored by said plain data storage unit;

the encoded data by referring to applicable time data in response to a request for an operation from the user, for determining if the current time agrees with the time authorizing the use of said encoded data by referring to said applicable time data;

issuing a command responding to saidthe request for anthe operation to said decoding section and said corresponding processing section unit and a corresponding processing unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data by referring to said applicable time data and saidthe plain data storage section unit does not store the decoded data, and issuing a command responding to saidthe request for anthe operation to saida corresponding processing section unit if the current time is determined in said judging step to agree with the timejudged to be in the time period authorizing the use of saidthe encoded data and said plain data storage section unit stores the decoded data; and

preventing reserving the issuance of a command responding to saidthe request for anthe operation until the time authorizing the use of saidauthorizing use of the encoded data if the current time is determined in said judging step not to agree with the time judged not to be in the time period authorizing the use of saidthe encoded data.

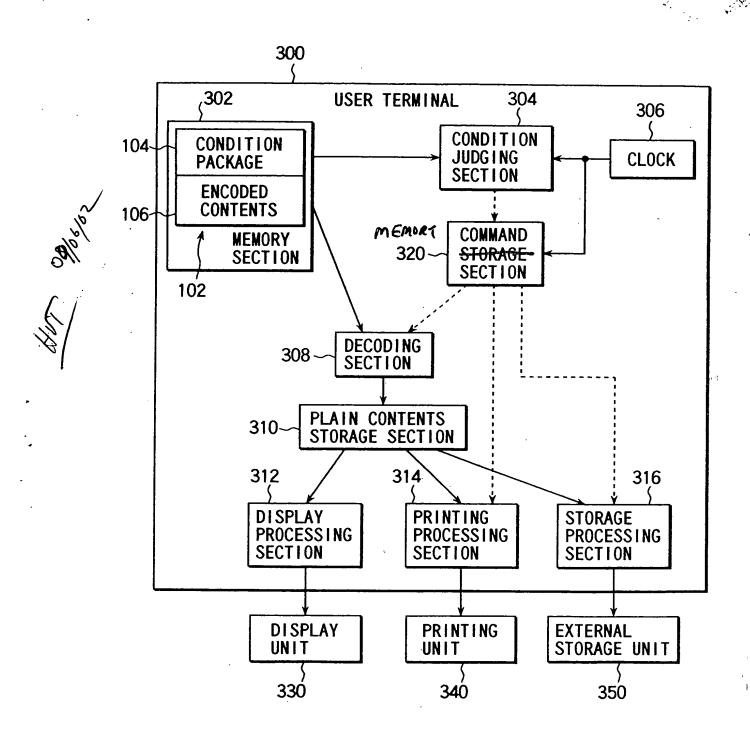
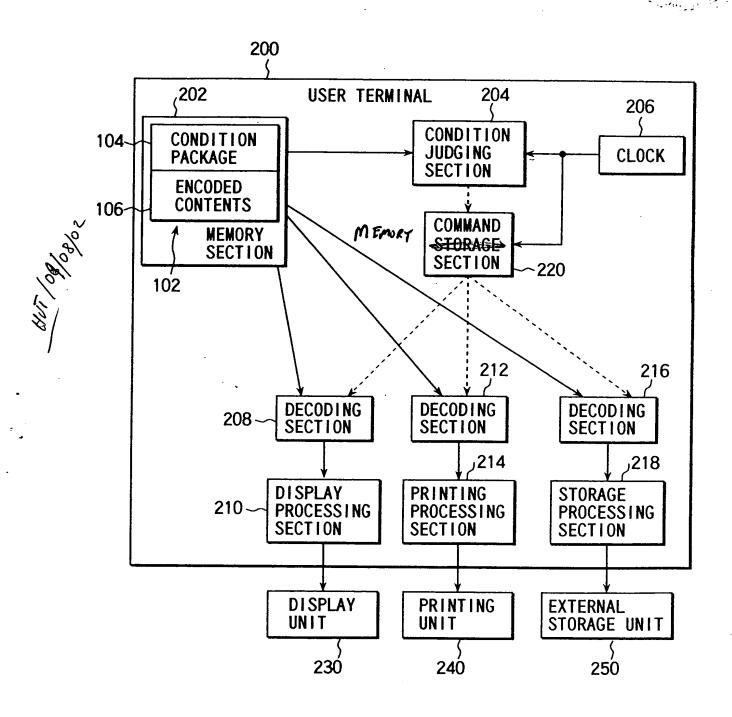


FIG. 14



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